

JACK LEE

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PROFILE

Final-year Computer Science & Information Technology student with 8 months' software engineering experience on a central CI/CD pipeline team at Ericsson. Experience building Python automation, cloud-native CI/CD infrastructure, developer tooling, and independent software systems spanning trading, web applications, and AI-assisted workflows.

PROFESSIONAL EXPERIENCE

Software Engineering Intern | Ericsson, Athlone, Co. Westmeath, Ireland Jan 2026–Aug 2026

- Independently refactored a monolithic 2,000+ line Python CI module into 14 executor-specific modules across approximately 25 development tasks, designing shared abstractions and runtime parameterisation to reduce duplicated logic and improve maintainability.
- Developed and maintained Jenkins/Groovy and Spinnaker pipelines for build, deployment, testing, and cleanup workflows, including migrating test flows to lighter snapshot-based jobs to reduce execution time.
- Built release-verification stages for cloud archive packaging and strengthened Artifactory/Nexus checks, identifying an undeclared ELF executable in production builds before release and raising remediation work.
- Diagnosed CI/CD and cloud-native failures across Kubernetes, Docker, Helm/Helmfile, and pipeline integrations, including resolving a blocker build regression and root-causing an RBAC cleanup failure to destructive Python file handling.

Web Development Intern | Ossark, Athlone, Co. Westmeath, Ireland May 2025–Aug 2025

- Contributed to client website projects through implementation, QA, and release, delivering responsive PHP/SCSS changes across multiple production sites.
- Diagnosed frontend issues and translated client/team feedback into layout, usability, and responsive-design improvements without disrupting established pages.
- Implemented and QA-tested feature and content updates across a portfolio of live client sites, coordinating releases with the wider team.
- Maintained implementation notes and release-checklists that supported the team's review, testing, and deployment process.

Selected clients: Kerry International Film Festival, MCL Electrical, Anushka Power Therapy, Daily Irish Produce, Capital Homes.

TECHNICAL SKILLS

Languages: Python, TypeScript/Javascript, Java, C#, C, SQL, Groovy, Bash

Cloud & DevOps: AWS, Google Cloud, Azure DevOps, Terraform, Docker, Kubernetes, Jenkins, Spinnaker, Helm/Helmfile, GitHub Actions, Cloudflare

Web: React, Next.js, Hugo, Tailwind CSS, PHP, HTML/CSS

AI & LLM: Model Context Protocol, Claude API, LLM APIs, prompt engineering, RAG

Tools & Data: Git, Gerrit, Linux, SQLite, Artifactory, Nexus, Jira

SELECTED PROJECTS

Multi-Broker Trading Platform | *Personal project*

Python · scikit-learn · PyTorch · Gymnasium · PPO · IG/Capital.com/Alpaca APIs · SQLite · Walk-forward validation

- Built a modular quantitative research and paper-trading platform spanning FX, CFDs, and US equities, integrating IG, Capital.com, and Alpaca demo APIs into separate market-data, strategy, risk, execution, journaling, analytics, and research layers.
- Developed reproducible supervised ML and reinforcement-learning pipelines with scikit-learn, PyTorch, Gymnasium, and PPO, combining causal feature engineering, chronological walk-forward validation, broker-realistic bid/ask execution, broker smoke tests, and sealed out-of-sample evaluation.

Dynamic Task Router | *Personal project*

TypeScript · Node.js · MCP · CLI/TUI · Git worktrees · Multi-provider LLM orchestration

- Built an open-source, provider-agnostic engineering orchestrator that turns cross-cutting work into bounded tasks with explicit ownership, verification, handoff, and token-budget controls.
- Implemented shared deterministic routing, execution, and telemetry behind CLI, interactive TUI, and local STUDIO MCP interfaces, isolating worktrees and run metadata outside target repositories.
- Added configuration-driven model discovery and routing policies for Codex, Claude Code, Qwen, OpenCode, OpenRouter, and local Ollama workflows.

PlanAround | *Pixel Forge AI Hackathon, Aug 2026*

Next.js · React · TypeScript · Tailwind CSS · Cloudflare Workers · Featherless · Structured extraction

- Built an offline-capable student-planning app that imports timetable screenshots or PDFs and assignment briefs, combining classes, commitments, deadlines, and scheduling preferences into actionable study sessions.
- Designed deterministic workload calculation, scheduling, stale-plan detection, and replanning that preserves completed work; restricted AI to reviewable extraction of unstructured input rather than calendar decisions.

Deal Ledger | *Personal project*

Hugo · Python · GitHub Actions · Cloudflare Workers · Product-data APIs · Validation/deduplication · Email alerts

- Built and operate a multilingual Hugo deal-discovery platform with market-specific routing, search, and email alerts for multiple European markets.
- Developed a Python/GitHub Actions ingestion pipeline that enriches external product data, validates prices and listings, deduplicates candidates, and routes uncertain submissions to human review.
- Automated deployment, monitoring alerts, and market-specific routing through GitHub Actions, Cloudflare Workers, and DNS configuration.

EDUCATION

BSc (Hons) Computer Science & Information Technology

2023–2027 (Expected)

University of Galway, Ireland

Target classification: First-Class Honours (1.1). Second year: Second Class Honours, Grade 1 (2.1), 68% average.

Selected modules: Programming III, Data Structures & Algorithms, Database Systems, Software Engineering, Networks & Data Communications, Machine Learning.

Leaving Certificate

2017–2023

Scoil Mhuire, Strokestown, Co. Roscommon

520 points across seven Higher-Level subjects, including H2s in German, Irish, Geography, and DCG.

ADDITIONAL EXPERIENCE

Cashier & Customer Service Representative | Casey's Londis, Roscommon, Ireland

May 2024–Mar 2026

- Operated the till and handled cash and card transactions, balancing the register at the end of each shift.
- Resolved customer queries and complaints at the counter while keeping queues moving during peak times.
- Coordinated with the small team during busy periods to keep stock replenished and the shop floor presentable.

Handled transactions and customer queries in a high-volume retail environment while coordinating with a small team during busy periods.

Cashier & Kitchen Team Member | Blue Thunder, Roscommon Town, Ireland

Apr 2022–Aug 2022

- Split time between the till and the kitchen, taking orders and preparing food to keep service moving during rushes.
- Used clear handovers between front-of-house and kitchen to ensure orders stayed accurate in a high-volume setting.

Coordinated cashier and kitchen duties with clear handovers to keep customer orders accurate during high-volume shifts.

ACTIVITIES & INTERESTS

Former competitive soccer and Gaelic football player, including a soccer Player of the Year award.

Member of the University of Galway Pool & Snooker Society.